

DRILL HOLES

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BORDER REV. DATE: June 11, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 343 (Washington St) and Pine Street in Dorchester County. A pedestrian crossing shall be installed across the west leg of MD 343 (Washington St). MD 343 (Washington St) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 343 (Washington St) approaches running concurrently. A Countdown pedestrian phase with audible pushbutton actuation shall be installed across the west leg of MD 343 (Washington St). The Pine Street approaches shall also continue to run concurrently. The pre-emption phase for both approaches of MD 343 (Washington St) shall continue to be provided.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.
- SHA signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- APS will function as follows:
TO CROSS WASHINGTON STREET
 - When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Washington at Pine."
 - When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #1 and SHA are as follows:

Mr. Gene Cofiehl
Assistant District Engineer - Traffic
Phone: (410) 677-4040

Mr. Wayne Weichman
Assistant District Engineer - Maintenance
Phone: (410) 677-4010

Mr. Bruce Poole
Assistant District Engineer - Utility
Phone: (410) 677-4082

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9570	Sheet aluminum signs to consist of: (ground mount) Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS WASHINGTON STREET".)	2 SF 2 EA

EQUIPMENT LIST (cont.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	2 C.Y.
5002	12" white lead free permanent preformed thermoplastic pavement marking.	65 L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	85 L.F.
6002	5" concrete sidewalk.	390 S.F.
8003	2 wire Central Control unit	1 EA
8010	Audible/tactile pedestrian pushbutton station & signs.	2 EA
8011	Breakaway pedestal pole (10').	2 EA
8014	LED 16" countdown pedestrian signal heads.	2 EA
8027	Schedule 80 rigid PVC conduit up to 4" - slotted.	35 L.F.
8028	Schedule 80 rigid PVC conduit up to 4" - trenched.	35 L.F.
8029	Detectable warning surfaces	22 S.F.
8034	No. 6 AWG stranded bare copper ground wire.	75 L.F.
8045	Furnish and install electrical handhole.	1 EA
8046	Install ground mounted sign.	2 SF
8056	Electrical cable - 2 conductor (No. 14 AWG).	110 L.F.
8058	Electrical cable - 5 conductor (No. 14 AWG).	120 L.F.

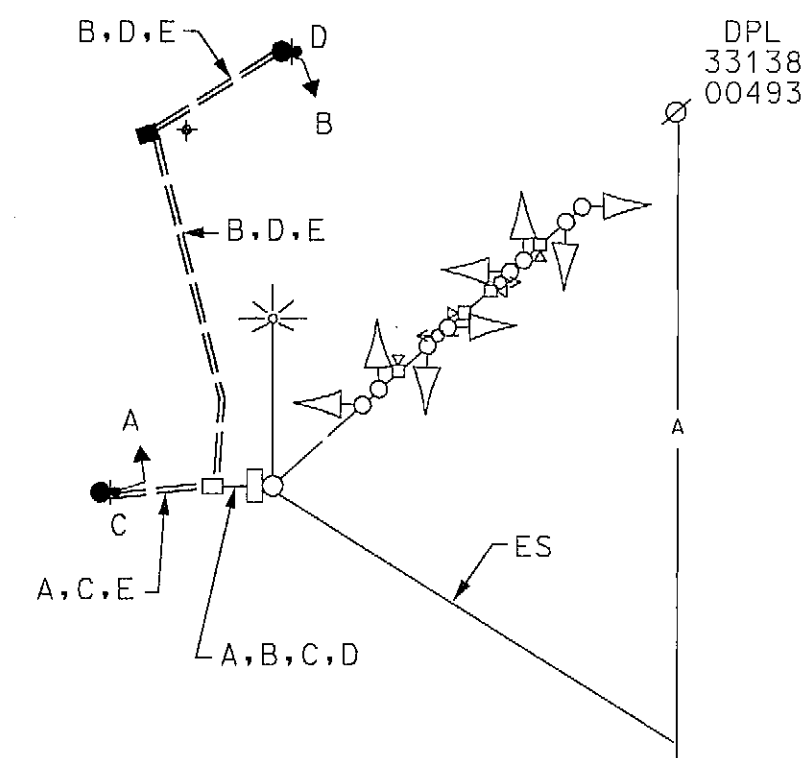
C. EQUIPMENT TO BE REMOVED

There is no signal equipment to be removed for this project.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 2 & 6	G	G	G	G	R	R	R	R	DW	DW	↓
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	→
PHASE 4 & 8	R	R	R	R	G	G	G	G	DW	DW	↑
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	←
PHASE 4 ALT	G	G	G	G	R	R	R	R	WK	WK	↓
PED CLEAR / COUNTDOWN	G	G	G	G	R	R	R	R	DARK	DARK	↓
4 ALT CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	↑
PRE EMPT 1	G	G	G	G	R	R	R	R	DW	DW	↓
PRE EMPT 1 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	→
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	↑

WIRING DIAGRAM



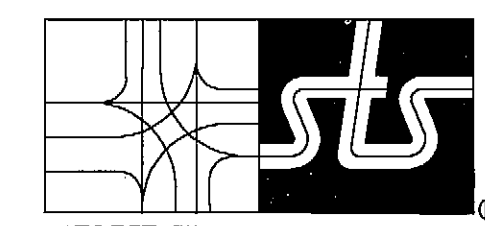
WIRING KEY

- A) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B) CABLE (NO. 14 A.W.G.)
- C) 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- ES- EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY DELMARVA
- ⚡ - GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 343 (WASHINGTON STREET)
AND PINE STREET
CAMBRIDGE, MD

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	8/11/10	CONTRACT NO.	DQ381K51
DESIGNED BY	J.W.A.	COUNTY	DORCHESTER		
DRAWN BY	R.C.	LOGMILE	0934310.45		
CHECKED BY	G.4/m	TIMS NO.	K291		
F.A.P. NO.		TOD NO.			
TS NO.	4353B	DRAWING NO.	2 OF 2	SHEET NO.	OF



STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy., N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6537

5862G1.DGN

T-276

PLOTTED: WEDNESDAY, JUNE 29, 2011 AT 03:03 PM
FILE: J:\DATA\K291\K291\5862G1.DGN